

## CLAIM AMENDMENTS

1. (original) Cathode for high-temperature fuel cell comprising a cathode material with the chemical composition according to the formula  $\text{Ln}_{1-x-y}\text{M}_y\text{Fe}_{1-z}\text{C}_z\text{O}_{3-\delta}$  wherein

$$0.02 \leq x \leq 0.05,$$

$$0.1 \leq y \leq 0.6,$$

$$0.1 \leq z \leq 0.3,$$

$$0 \leq \delta \leq 0.25$$

and wherein Ln = lanthanide, M = strontium or calcium and C = cobalt or copper, wherein the cathode has an average grain size in the range of 0.4 to 1.0  $\mu\text{m}$ .

2. (original) The cathode according to claim 1 wherein  $0.3 \leq y \leq 0.5$ , especially wherein  $y = 0.4$ .

3. (currently amended) The cathode according to ~~one of claims~~ claim 1 ~~[[to 2]]~~ wherein  $0.15 \leq z \leq 0.25$ , especially wherein  $z = 0.2$ .

4. (currently amended) The cathode according to ~~one of claims~~ claim 1 ~~[[to 3]]~~ wherein Ln = lanthanum.

1           5. (currently amended) The cathode according to ~~one of~~  
2 ~~claims claim~~ 1 [[to 4]] wherein M = strontium.

1           6. (currently amended) The cathode according to ~~one of~~  
2 ~~claims claim~~ 1 [[to 5]] wherein C = cobalt.

1           7. (currently amended) The cathode according to ~~one of~~  
2 ~~claims claim~~ 1 [[to 6]] comprising  $\text{La}_{0.58}\text{Sr}_{0.4}\text{Fe}_{0.8}\text{Co}_{0.2}\text{O}_{3-\delta}$ ,  
3  $\text{La}_{0.55}\text{Sr}_{0.4}\text{Fe}_{0.8}\text{Co}_{0.2}\text{O}_{3-\delta}$ ,  $\text{La}_{0.78}\text{Sr}_{0.2}\text{Fe}_{0.8}\text{Co}_{0.2}\text{O}_{3-\delta}$  or  $\text{La}_{0.58}\text{Sr}_{0.4}\text{Fe}_{0.8}\text{Cu}_{0.2}\text{O}_{3-\delta}$ .

1           8. (currently amended) The cathode according to ~~one of~~  
2 ~~claims claim~~ 1 [[to 7]], wherein the cathode has an average grain  
3 size in the range of 0.6 to 0.8  $\mu\text{m}$ .

1           9. (currently amended) The cathode according to ~~one of~~  
2 ~~claims claim~~ 1 [[to 8]] wherein a porosity is equal to between 20  
3 and 40%, especially between 25 and 35%.

1           10. (original) A method of preparing a cathode ac-  
2 cording to ~~one of claims claim~~ 1 [[to 9]] comprising the steps of:  
3           applying and sintering onto an anode-electrolyte  
4 composite a  $(\text{Ce}, \text{Gd})\text{O}_{2-\delta}$  powder with an average grain size of less  
5 than 0.8  $\mu\text{m}$  such that a  $(\text{Ce}, \text{Gd})\text{O}_{2-\delta}$  intermediate layer results,

6           applying and sintering onto this intermediate layer a  
7 cathode material with the chemical composition according to the  
8 formula  $\text{Ln}_{1-x-y}\text{M}_y\text{Fe}_{1-z}\text{C}_z\text{O}_{3-\delta}$  wherein

9            $0.02 \leq x \leq 0.05,$

10           $0.1 \leq y \leq 0.6,$

11           $0.1 \leq z \leq 0.3,$

12           $0 \leq \delta \leq 0.25$

13       and wherein Ln = lanthanide, M = strontium or calcium and C =  
14 cobalt or copper as powder wherein an average grain size of less  
15 than 2  $\mu\text{m}$ .

1           11. (original) The method according to claim 10 wherein  
2 the cathode material is applied as powder with an average grain  
3 size between 0.6 and 0.8  $\mu\text{m}$ .

1           12. (currently amended) Use of a cathode according to  
2 ~~one of claims~~ claim 1 [[to 9]] in a fuel cell, wherein the cathode  
3 is arranged adjacent to a  $(\text{Ce}, \text{Gd})\text{O}_{2-\delta}$  intermediate layer wherein a  
4 porosity of less than 30%.